

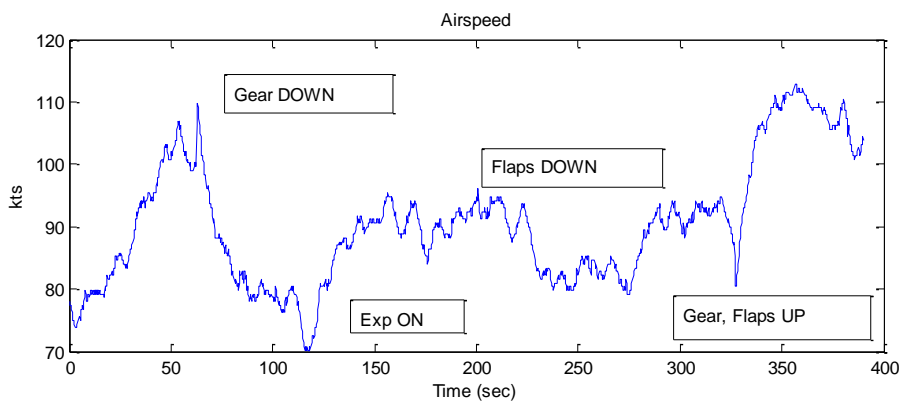
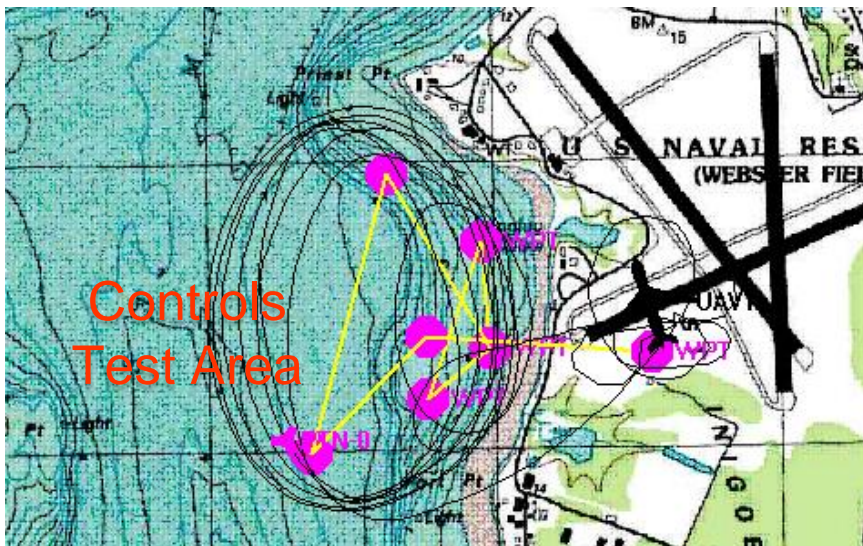
Remotely Piloted Vehicles for Experimental Flight Control Testing



FLying Controls Testbed (FLiC)



J-FLiC



National Aeronautics and Space Administration

Operational Concept

- External pilot (EP) executes manual takeoff
 - EP alternately monitors auto-takeoff
- EP engages autopilot in local area if manual
- Autopilot transitions to designated test area
- Internal pilot (IP) engages experimental controls
- Induce unanticipated disturbances
 - Landing gear / flaps
- Experimental controller compensates
- Discontinue disturbances
- IP disengages experimental controller
- IP engages autopilot Return to HOME
- EP executes manual landing
 - Alternately monitors auto-landing
- 12-15 minutes total flight time